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Die Mr. Locals

August 3, 1968

135/Z - Edgar T. Martin

Medium Wave Broadcasting to Cuba

In accordance with your request of August 2, we have made a comparative study of various locations in the Caribbean area for breadcasting to Cuba. The study is based on the following assumptions:

- I. Transmitter power is 1,000 KW medium wave, using a directional autenna with a gain of at least 5 db in the direction of the target.
- 2. The North American Regional Droadcasting Agreement (NARBA), so which the United States is a signatory nation, will be absocated.
- 3. The transmitter will be located outside the territorial limits of the continental United States.
- 4. The Federal Communications Commission (FCC) will take necessary domestic action, and the Department of State necessary international action, to acquire a clear channel for the station. (The coverage maps shown in this report are based on clear channel operation.)
- 5. The Cuban Covernment will not jam, or otherwise interfere with the fransmissions.

The fethnical factors considered in comparing nine culterent actually actua

Program feed from the U.S. (relative case or difficulty in providing lime program material to the transmitter from U.S. sources.)

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Declassified/Released on 1-5-89

(F87-758) under provisions of E.O. 12353
by N. Menan, National Security Council

- (2) Skywave (nighttime) signal coverage of Guoa.
 (Signal coverage calculations are pased on FCC skywave curves, increased by a factor of 4 db to take into account geomagnetic conditions in the Caribbean area.)
- (3) Greendwave signal coverage of Cuba. (Signal coverage based on FGC curves.)
- (4) Fading zone effects in Cuba (potential distortion and severe fading as a result of interaction of skywave and groundwave signals during the nighttime hours.)

Interference to or from radio stations in the U.S., or other adjacent countries, has not been considered since the assumption is made that the proposed station will operate on a clear channel.

The locations chosen for comparison are as follows, (where several locations are lumped together, the technical suitability, propagation-wise, is considered to be essentially the same for each location):

- (1) Gr. Abaco Island, Grand Sahama Island, and other nearby islands in Bahamas.
- (2) Nessau
- (3) Navassa Island.
- (4) Puerto Lica.
- (5) Dominicas Republic.
- (6) Swen Island.
- (7) British Honduras.



- (S): Niceragus/Hondures (on the sea coast near border of the two countries.)
- (9) Cayman Island.

The attached chart shows the relative comparison between the various locations, considering the various technical factors ag aforementioned.

Attachesent

Chart



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		Wodeling.	Nasses	Dentalcas. Republic	Cayman. Inless	Pictures. Intend	Mcaragua/		British Kondurks	Gr. Abaco/ Grass Balama Island	Puerto Alco	Venezuela
1.	Program food from U.S.	5	. 5	•	4	4	4	4	4	3	. 5	4
3.	Myssave, sighttime sig- sal in Cuba	10	4	4	5	\$	3	4	3	4	(: 3	2
3.	Fading some effects in Cuba	-8	3	2	5	5	2	•	2	4	 	ļ
4.	Greendwave, Caytime eignal in Caba	5	4	3	5	4	3	4	2	4	1	1
•	Total		61	59	55	50	49	48	44	43	42	37
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